

FOLIO

UNIVERSITY OF ALBERTA
14 OCTOBER 1994

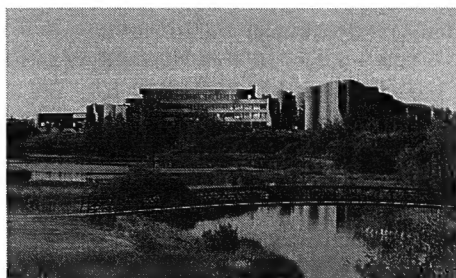


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U of A asserting its provincial mandate Debate on BEd in Grande Prairie centres on maintaining quality of degrees and serving the whole province

By Michael Robb



Grande Prairie Regional College

In the end it wasn't even close. General Faculties Council, by a vote of 49 to 25, endorsed the Faculty of Education's proposal to offer a Bachelor of Education degree program in conjunction with Grande Prairie Regional College.

But the issue did generate a lot of debate about two issues that are important to many people on this campus: maintaining the quality of U of A degrees and laying claim to being a university of Alberta, not just Edmonton.

While many raised serious and substantive academic concerns about the Faculty's proposal, others at the 3 October meeting argued the proposal's flaws were not serious enough to jeopardize the two-year pilot project to train teachers for the local market.

"There are questions about our ability to provide quality education outside of the Edmonton campus," Michael Asch (Anthropology) said. "But for those of us who believe this is important to the province, this University and our identity, the question is not whether we can get equivalent quality in a place like Grande Prairie, but whether this proposal meets a set of criteria that we can feel comfortable with."

"I don't believe that all the t's are crossed, nor are all the i's dotted, and I believe we can spend a long time doing that. But at the same time, unless we try an approach that's out there and see what problems we face, we will be spending forever trying to create a perfect product." Dr Asch

added that he was comforted to know the program was a two-year pilot project.

Acting President John McDonald said the people of the province are looking to the U of A. "They're expecting something from us. Of course, I too, would like to see students come to this campus and get the benefits of campus life as well as quality courses they require, but I've also had the chance to see what's going on in some of the other colleges in the province, and I think many of you might be surprised at what a good job they do also."

"I think it's very important to consider very carefully what kind of response the University of Alberta makes when we get these kinds of requests."

"This project is a model project and, if all goes well, will be exported over time and space," said Association of Academic Staff President Ann McDougall. "All of this underscores the importance of getting it right."

Dean of Science Dick Peter pointed out that the costs per student are quite high and the numbers of science courses for students in Grande Prairie would be very limited. There's no question the number of science and arts courses they'll be able to take are limited, responded Roger Smith, Acting Vice-President (Academic).

"This proposal seems rather hurried and it seems that a number of issues have not been well thought out related to costs and standards," said Dean Peter.

Sociology Professor Derek Sayer had similar concerns. "I also have doubts about the issue of comparability." He raised questions about whether the instructors would have the necessary qualifications. According to the Faculty proposal, instructors will have credentials, experience, and/or special skills comparable to their counterparts at the U of A. In general, those could include the following: a master's or PhD degree in the area; elementary teaching experience; and work with practising teachers or student teachers.

Continued on page 3



Mayor Jan Reimer and Aldermen Tooker Gomberg, left, and Michael Phair consult with students at Faculté Saint-Jean. The city officials visited the Faculté last week as part of their regular visits to the various wards. Faculté is within Ward 4.

University, NASA reach collective agreement

By Michael Robb

The University of Alberta's Board of Governors and Non-Academic Staff Association have reached a collective agreement, calling for a 5.37 percent reduction in salaries.

The three-year agreement calls for a 2.68 percent reduction in pay rates. It also includes a salary reduction of 2.69 percent, equivalent to seven unpaid days off, to be deducted in equal monthly instalments. The effective date of the agreement is October 1 1994.

The seven unpaid days off comprise: the conversion of Boxing Day and the Christmas floater, five additional days, two or three resulting from Christmas closure (depending on the year) and the balance of three or two per fiscal year to be taken at times to be worked out between the individual and department head.

The agreement includes a re-opener on salary and benefits for the fiscal year starting April 1 1996 and a cap on the University's contributions to benefit costs at the 1994-95 per person level. A joint NASA/

Board committee will be established to consider ways benefit costs can be contained.

"We are pleased that both parties have ratified this agreement," said Vice-President (Finance and Administration) Glenn Harris. "It will protect a large number of jobs, and it represents a significant contribution to the resolution of the University's financial problems."

Late last week, the Board approved the agreement and, earlier this week, the NASA vote was counted. NASA members approved the agreement by a two-to-one margin (907 to 445). John Wevers, NASA's labour relations officer, said NASA members realized they had to make some sacrifices. He said what changed people's minds was the elimination of the retroactivity provisions, which were included in the previous agreement NASA members voted overwhelmingly against.

Federal government proposes new ways of funding postsecondary education

U of A students fear much higher tuition fees

By Michael Robb

Proposed changes in the way the federal government helps the provinces finance postsecondary education will give students easier access to the system, says Human Resources Development Minister Lloyd Axworthy.

However, students across the country – including at the University of Alberta – say the proposals in Axworthy's recently released discussion paper on improving social security in Canada will do exactly the opposite.

The government is proposing two alternatives for dealing with the future of the cash portion of the federal transfers to the provinces under the Established Programs Financing arrangements for postsecondary education: maintain the current arrangements, allowing the cash portion of the transfer to decline gradually, or shift federal spending from support to institutions via provinces towards an expanded and permanent system of aid to individual learners

based on loans and grants.

"It is true that replacing federal cash transfers would put upward pressure on tuition fees," acknowledged the Minister. "This may be a necessary price to pay to put in place a permanent system for ensuring accessibility to postsecondary education."

"Continuing with the existing course would see the cash transfers disappear over the coming decade, with tuition fees continuing to rise, but with no mechanism to

sustain broad accessibility for Canadians," he outlined in the discussion paper. But student groups, such as the Canadian Federation of Students, warned the changes would make accessibility to colleges and universities even more restrictive.

University of Alberta Students' Union President Suzanne Scott says a lot of students would think twice about attending universities and colleges when they consider the high debt loads they would have

Continued on page 2

Science and Technology Week kicks off

By Folio staff

"Explore the Possibilities!" That's the theme behind this year's National Science and Technology Week.

Beginning today, 14 October, and running to Saturday the 23rd, this 10-day celebration draws public attention to the myriad benefits that science, technology, engineering and mathematics offer to our modern world.

Across Canada, more than 1,000 events will help de-mystify technology and science, making it friendlier and, hopefully, more appreciated. The world economy is increasingly dependent on technology, and numerous problems confront health care, the environment, and education. Science and Technology Week seeks to encourage

Canadian consumers and the workforce to accept, support, and contribute to scientific research and technology development.

"National Science and Technology Week is an opportunity for Albertans to learn more about the advances being made right here at home, and to celebrate our achievements and successes," says Dianne Mirosh, Minister Responsible for Science and Research. "Special activities will take place throughout the province and across the country. Plan to take part – and discover more about this exciting and dynamic field."

The University of Alberta does not have any public events scheduled for the week, but the U of A was instrumental in helping

to organize the Alberta Science and Technology Leadership (ASTech) Awards that will be held 21 October. The U of A was represented by David Norwood, Special Assistant to the Vice-President (Research); by Jim Murray, Director of the Intellectual Properties and Contracts Office; and by Professor Emeritus RJ (Bob) Crawford, who is Executive Director of the 1994 ASTech Awards.

As first reported in the 30 September issue of *Folio*, Plant Science Professor Chuji Hiruki and Biochemistry Professor Grant McFadden are finalists for ASTech Awards. Chemical Engineering Professor Emeritus Donald Robinson will receive the Outstanding Leadership in Alberta Technology Award, and the U of A's Women in Scholarship, Engineering, Science and Technology program (WISEST) is a finalist for the Science and Technology Public Awareness prize.

For information on other Science and Technology Week activities in Alberta, please call Jamie Drake, Corporate and Public Relations, Economic Development and Tourism, at 427-0670.

U of A staff invited to PD Day at GMCC

University of Alberta faculty are invited to attend Professional Development Day at Grant MacEwan Community College on Thursday, October 27.

The theme is "Discovering and Creating Possibilities: Learning, Teaching and Working Together." The full day includes sessions on enhancing faculty performance, using case studies in teaching, and how to avoid the conflicts associated with clashing cultures in the classroom. Keynote speaker David Irvine will share strategies for "Developing an Entrepreneurial Mindset in a Changing Workplace."

A continental breakfast will be served from 7:45 to 8 am. The keynote address runs from 8:30 to 10, with morning and afternoon sessions and workshops to follow. During the noon hour, take your brown bag lunch to a reading by Cora Taylor, Writer in Residence; refreshments will be served.

The sessions are free. Please register with Celine Miller at 497-5279 by Wednesday, 19 October. Pre-registration is essential because the size of some sessions is limited.

Video teleconference explores electronic teaching

University staff have a chance to learn first-hand how interactive technology can aid teaching . . . via a video teleconference link to Indiana University.

It's a unique opportunity to learn on two levels: by assimilating information, and by experiencing the concept in action.

Participants can explore the impact of electronic information and networks on teaching and learning, discover how the Internet can be used for distance education, and find out how high-speed electronic access to networked information can change the very culture of universities.

The free teleconference, titled "Networked Information and the Scholar," will be held on Friday, 28 October, from 11:30 am to 3 pm in 141 Arts Building. It is open to all University academic staff, librarians, network support personnel and administrators. Brown baggers and drop-ins are welcome.

The video teleconference is sponsored by University Teaching Services and the Alternative Delivery Initiative, Faculty of Extension. For more information, call Dr Terry Anderson, Alternative Delivery Specialist, at 492-1183.

Federal proposals *Continued from page 1*

to assume. Alberta's Minister of Advanced Education and Career Development, Jack Ady, worries some students would leave university with \$50- to \$60,000 debt loads. It's possible, says Scott, that students would enroll disproportionately in disciplines that would result in high paying jobs upon graduation.

Acting Vice-President John McDonald said the University of Alberta has always supported the idea of an improved student loan program and the concept of some kind of income-contingency scheme. Dr McDonald expressed his concern, however, that students would be burdened with higher debt loads.

The federal proposal amounts to a significant reduction in cash support for postsecondary education, and the provinces may not be in a position to pick up the slack, Dr McDonald said. "And as governments, federal and provincial, work to reduce their expenditures, we have to be concerned about maintaining and supporting research structures at universities."

The federal government is suggesting increased flexibility in using registered retirement savings plans to encourage personal savings for lifelong learning. Those could be modelled on the first-time homebuyers' plan.

Government is also intimating that some form of income-contingent loan scheme could be established. Borrowers would repay their loans after leaving school and entering the workforce. Repayment schedules would be adjusted to match their ability to repay. Scott likes that concept, but is not sure such a scheme would include remission provisions.

The discussion paper identifies three other priorities in the postsecondary education area, but is vague about how to deal with them. Axworthy wants to encourage more Canadian students to study abroad. "Canada lags badly in the breadth and scope of formal links between our learning institutions and their counterparts in other countries."

Second, the government wants to explore initiatives and partnerships with the provinces, postsecondary institutions and industry with a view to expanding technology to enhance learning opportunities. And third, the government wants to make learning more portable among schools and institutions across the country. A "learning passport" would document a person's learning experiences and academic and vocational credentials, and be recognized by employers and

postsecondary institutions, Axworthy says.

Public consultations on the discussion paper have begun and will continue into early 1995. The Standing Committee on Human Resources Development will hold hearings across the country over the next few months. A final report will be released and legislation is expected to be tabled in the House of Commons following federal-provincial discussions.

What does the federal government spend on postsecondary education?

The federal government spends about \$8 billion annually on postsecondary education – about half of the system's \$16 billion total.

The biggest component is \$6.1 billion transferred to the provinces each year under the Established Programs Financing arrangements; about \$3.5 billion consists of tax points and \$2.6 billion in cash. About \$500 million is spent every year on the Canada Student Loans Program.

The remainder of the federal support for postsecondary education goes to research granting councils, such as the Medical Research Council, National Research Council, Natural Sciences and Engineering Research Council and Social Sciences and Humanities Research Council.

Federal officials predict, however, that cash and tax points to the provinces for postsecondary education will at best remain flat in the years ahead. In the 1994 budget, transfers to the provinces were frozen at 1993-94 levels beginning in 1996-97. Every year, therefore, the provinces will get a larger share of the PSE transfer in the form of money raised through the tax points transferred to them by the federal government.

Tax points under EPF arrangements, which currently raises \$3.5 billion for the provinces (an amount increasing each year), are established in perpetuity. The government points out that those tax points amount to a permanent, growing federal endowment to help support postsecondary education.

For now, that leaves the smaller, and shrinking cash component, worth \$2.6 billion this year, declining to about \$2 billion in 1996-97. If that trend continues, the government could simply opt to let the decline in cash transfers run its course so that, within a decade, the full PSE transfer would be financed from tax points.

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Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-0436 for sizes, rates and other particulars.

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Time to care, time to share United Way Campus Campaign Goal is \$260,000

By Judy Goldsand

"The goal is higher because the needs are greater," say United Way campus campaign co-chairs, Glenn Harris (VP Finance and Administration) and John Barry (Physical Education and Recreation). They want University staff and students to know of some of the critical needs this year:

- Twice as many people are relying on food banks as last year;
- In one school, over half the children have nothing to eat other than what is provided through a school lunch program;
- More than 10,000 women and children were admitted to Alberta shelters in 1993;
- Suicide interventions nearly tripled during the past year.

The campus campaign is off to an encouraging start with \$35,000 in donations. Thanks to many University and community sponsors who have donated prizes, employees who contribute through monthly payroll deductions are eligible for Early Bird Draws, to be held every Friday until 10 November. Five names will be drawn each week. The 14 October draw will be held at noon by the Peace Dove; the 21 October draw at noon in CAB.

All contributors to the campus campaign will be eligible for two grand prizes (\$500 and \$300) to be awarded 30 November at noon in the Students' Union Building.

Campaign leaders want to assure you that all donations – large and small – do make a difference to the 250,000 people in the Edmonton area who are helped by the United Way each year.



University
of
Alberta

AAS:UA membership wants more assertive role

President Ann McDougall also not content to live with the status quo

By Michael Robb

Newly installed Association of Academic Staff President Ann McDougall is as worried as her colleagues are about the University of Alberta's ability to attract and keep young academics. Certainly, morale and the climate aren't good.

She is equally certain about another thing: she's not content to live with the status quo – and she's encouraged that others aren't either. She acknowledges there are some young academics who are testing the job market. But the fact that many are choosing to become involved instead is encouraging. "They're trying to make this place a better place.

"I'd rather be a part of this, rather than simply sit there and be a victim of whatever policies are decided. I think that's probably true of a number of younger people who are becoming actively involved at various levels in the association. They really do have the sense that either they get in there and do something, or we're going to be saddled with policies we resent.

"Right now there is a lot to be done. In the good times, the association could afford to reflect its members, to convene, and it's role is a different one that it has more recently been asked to play." That new role, she says, is increasingly one of leadership. "Members are demanding a more active and assertive role.

"When I first came here, I did not get the feeling that the members wanted the AAS:UA to be any more active than it really was. Things were going well. Probably, we were too complacent."

But Dr McDougall believes academics can no longer afford to be complacent. There are a number of issues looming large. Tenure is being questioned. Benefits are under scrutiny. "We're convinced that what



Ann McDougall

we do and the structure in which we do it – which includes tenure – is of value, but what we've clearly not been able to do is articulate that," she says, pointing out that that case hasn't been made effectively to groups on and off campus.

"The onus is on us," she says, "to find ways to let other people see what we do. People are saying, 'convince us'." The issue for Dr McDougall is much larger than simply arguing the merits of tenure. "We haven't found a way to explain to people what doing research means." Dr McDougall is aware of the fact that when she says to her neighbours that she is going to write a monograph, it means very little to them. "In a nutshell, that's part of our problem ... whether you're in arts or sciences."

Dr McDougall says the AAS:UA has to determine what its role is in the broader

University community. How does it relate to the other constituent groups? And in what ways should those groups be supporting one another? "Our lives are intertwined on every level, yet when we get to the group level we tend to define ourselves as having different interests, forgetting to what degree those interests will mesh at the ground level." Ultimately, that means communicating extensively with other groups.

Certainly, Dr McDougall is encouraged that other groups and individuals on campus are interested in expanding lines of communication. Several AAS:UA executive members have met with President-elect Rod Fraser. "On that level, we're very encouraged; the door's been opened." Board of Governors Chair John Ferguson has invited the AAS:UA Council to meet with the Board. Meetings are planned with other campus groups as well.

Dr McDougall recognizes that if academics are going to get involved with the AAS:UA, they'll have to see that it's possible to get things done. "If they see nothing

but meetings, they'll opt out," she says, pointing out that many people on campus would be surprised to learn just how many people in a myriad of departments are doing AAS:UA business.

AAS:UA membership

830	Professors
447	Associate Professors
299	Assistant Professors
432	Others
63	Part-time (Associate members)

2,071

Academic sketch of new AAS:UA president

- Department: History, hired in 1986
- Academic interests: French West African history, West Saharan societies
- Degrees: PhD from University of Birmingham (1980); studied at Centre for West African Studies; MA and BA from University of Toronto
- Postdoctoral positions: Dalhousie, York and Duke Universities
- On AAS:UA Council for three years

Provincial mandate *Continued from page 1*

It worries me that the program may be carried by sessionals, Dr Sayer said.

Will the degree be the equivalent of a degree earned on campus? asked graduate student Steve Karp. What about 300 and 400 level courses in arts, social sciences and science? Are there educational resources in place in Grande Prairie to support the subject courses outside of education that give substance to the methodology courses?

Another issue to arise was job market needs. Was there really a need for teachers to be educated in Grande Prairie when a glut of teachers exists now? some GFC members wondered. Acknowledging that many people want to pursue educational studies in their hometowns, Anne Fanning (Medicine) questioned whether there was a need, and whether the number of students on the main campus would be reduced? Responded Education Dean Harvey Zingle: Perhaps there is a glut now, but market surveys project shortages in five years. And

rural areas have difficulty attracting and keeping teachers.

Not unlike other professions such as Medicine, there are serious distribution problems, Dr Smith said.

The University has submitted the proposal for the collaborative BED to the provincial government for consideration under its first phase of Access Fund funding. The University expects to learn by the end of the month whether the program will be funded. The Faculty proposal estimates the program, with an enrollment of 40 students, would cost about \$715,105. Part of that total would be paid for by student fees.

"This is the latest in a series of proposals ... meant to meet a long-standing need for a regionally delivered BED in northwestern Alberta," GPRC President Bill McCracken says.

Dr Asch said he hoped the program would be assessed before the University decides it will be used elsewhere.

Killam Annual Professor studying brain's role in hypertension

By Judy Goldsand

"Innovative and productive researcher," "exemplary teacher and student supervisor," "positive, patient, but pedagogically rigorous," "a truly distinguished exemplar of the clinician/scientist role" – all these qualities are attributed to Jack Jhamandas and have earned him a Killam Annual Professorship for 1994-95.

The Professorship, which provides a year's salary and a \$2,500 prize, is awarded annually to eight faculty members for outstanding scholarship, teaching and community service.

Dr Jhamandas came to the University of Alberta's Department of Neurology in 1987 as a Medical Research Council Scholar, after training in clinical neurology and basic neurosciences at the Montreal Neurological Institute and McGill University. He has earned a national and international reputation for his research in the area of brain control of cardiovascular regulation. Major grants from the Heart and Stroke Foundation of Canada and the Medical Research Council support his current research.

He and his colleagues are investigating the role of the brain in regulating blood pressure. They want to know how information is communicated between individual cells, and what chemical messengers are involved. Resulting information is not only applicable to blood pressure control, but

also to a variety of diseases involving the brain and nervous system, for example, Alzheimer's disease and Parkinson's disease.

For some time there have been drugs that are effective in treating hypertension, says Dr Jhamandas, but we didn't understand how or why they worked. "If we can understand how signals are transmitted between cells, we could identify abnormalities and design more focused treatments."

Dr Jhamandas and his colleagues are also trying to find ways to quantify the disabilities affecting people who have Parkinson's disease. "If techniques could be found that would allow us to measure the tremors and muscle stiffness, we would not have to rely on subjective indicators and could assess whether treatment is really working," he says.

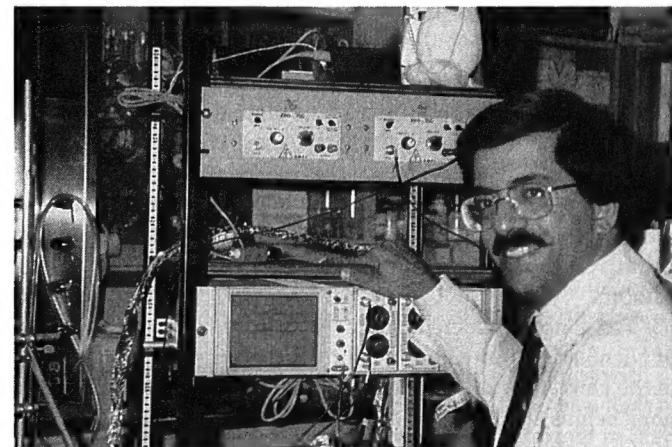
Since coming to Edmonton, Dr Jhamandas has published extensively in prestigious, frontline, scientific journals. His lab has been a training ground for six summer students, three graduate students and two postdoctoral fellows. He is called a true "mentor" for students under his supervision.

Undergraduate students, graduate students and residents highly rate his teaching skills in basic neurosciences and clinical medicine. Whether in lectures or small group settings, Dr Jhamandas has the knack of "turning on" the audience to his topic, says a colleague.

He is often asked to be a member of national granting committees and invited to speak to local, national and international groups.

Besides his demanding scholarly responsibilities, Dr Jhamandas is active in the wider community. For several years he has organized a monthly academic speakers program for city neurologists. In addition, he and Dr Fred Wilson represent neurologists in a group that's developing a Relative Value Guide for the medical profession. This is an Alberta Medical Association initiative to define the value of clinical services provided in all subspecialties.

One cannot successfully combine clinical work and concentrated research without



Jack Jhamandas checks the oscilloscope, a device for recording electric current

a supportive environment, says Dr Jhamandas. He gives much credit for his achievements to members of his lab, medical and scientific colleagues, students and postdoctoral fellows and, most of all, to his family.



Ronnie Cheung, Kathleen Olson, Michael Sykes, Adam Wu and Candace Brooks, left to right, display their 1994 Kreisel Scholarship awards. Shown with them are John McConnell, VP (Development and Community Affairs), and Mrs Esther Kreisel. Missing from photo: Jill Griffiths and Nadine Kozak.

Seven students earn Kreisel Scholarships

By Ron Thomas

Speaking to The Friends of the University of Alberta in 1978, Henry Kreisel, then Vice-President (Academic), compared the University with the North Saskatchewan River. "The river will go on flowing by long after we are gone You can't step into the same river twice. It is the same with the University - it changes, but it binds the past and the future. A university is as nearly immortal as human beings can become."

Dr Kreisel also said that in spite of present crises, the "central work of the University" would continue. "The teaching will go on, the learning will go on, the buildings will stand, and the river will flow."

A contributor to the "learning" continuum is the Henry Kreisel Memorial Honors Scholarships, awarded annually to students who have demonstrated superior academic achievement in Grade 11 and have subsequently chosen the University of Alberta as their alma mater.

Candace Brooks, Ronnie Cheung, Jill Griffiths, Nadine Kozak, Kathleen Olson, Michael Sykes and Adam Wu were chosen for the 1994 awards over nearly 1,000 other students from across western Canada.

"Given the extremely high quality of applications received, recipients can indeed feel very proud of their selection as Henry Kreisel Scholars," Registrar and Associate Vice-President Brian Silzer said at a luncheon at which Esther Kreisel, wife of the late

Dr Kreisel, and John McConnell, Vice-President (Development and Community Affairs), presented the awards.

In congratulating the recipients, McConnell reminded students and guests of one of the initiatives in *Degrees of Freedom*: "The University of Alberta should be the university of choice of the most qualified undergraduate students in Alberta and some of the most qualified undergraduate students in Canada for the study of a select number of fields and professions." The Henry Kreisel Scholarships are one way that we (the University) are working towards that goal, he said.

Five of the recipients - Brooks, Cheung, Griffiths, Sykes and Wu - are enrolled in the Faculty of Science. Kozak is in the Faculty of Agriculture, Forestry and Home Economics, and Olson is in the Faculty of Education. Brooks had a 97 percent average in Grade 11 and a 96.2 percent average in Grade 12 (Spruce Grove Composite High School). She is taking honors chemistry (two courses) plus mathematics, zoology and physics. She wants to succeed in chemistry but says her ultimate goal is to earn a PhD in German. "Who knows, I could be in Arts one of these years." For her, the "beauty of the [\$2,500] scholarship" is that she can tinker with her program a bit without coming to grief financially.

Musical weekend opens with Holligers' artistry

By Elsa Roehr

World renowned oboist Heinz Holliger is the feature performer at the annual Nicholas Arthur Kilburn Memorial Concert at Convocation Hall on Friday, 21 October. He will be joined by his wife, Ursula Holliger, on the harp to perform works by CPE Bach, Dorati, Carter, Britten, Viotti, Rossini, and Chopin.

The concert, which honours the memory of Nicholas Arthur Kilburn, a former member of the University of Alberta Board of Governors, begins at 8 pm following a reception in the foyer of the Arts Building.

Heinz Holliger will also give a master class on 20 October, at 7 pm in 1-29 Fine Arts Building; admission is free.

On 22 October, Convocation Hall will ring with chamber music by Wolf, Bartok and Brahms during the second faculty concert in the "Music at Convocation Hall" series. The concert will display the talents of some of the Music Department's gifted faculty.

Norman Nelson leads the performance on first violin, and Winspear Visiting Professor Johnathan Craig performs on the viola. The strings are completed by Tanya Prochazka on cello, and by Dianne New on violin. The strings will play the "Italian Serenade" by Hugo Wolf and "String Quartet #4" by Bella Bartok. Dennis Prime's clarinet will join the string quartet for the third piece, Johannes Brahms' "Clarinet Quartet for Clarinet and String Quartet."

The concert will be introduced by Richard Moses of CKUA Radio. Malcolm Forsyth will explain the works by the three classical composers in the pre-concert introduction in the Arts Lounge at 7 pm, followed by a reception in the foyer.

Tickets for the Kilburn concert are \$1 for adults, students and seniors. For the faculty concert, tickets are \$10 for adults, \$5 for seniors and students. All tickets are available in advance from the Music Department or at the door. Performances start at 8 pm.

William von Eggers Doering: EFF Distinguished Visitor

William von Eggers Doering, who has been called "one of the most influential organic chemists in the last half of the 20th century," is coming to the University of Alberta's Department of Chemistry as a Distinguished Visitor. He will be on campus from 19 October to 3 November, under the aegis of the Endowment Fund for the Future.

Professor Doering, now professor emeritus at Harvard University, extended the concept of aromaticity and has used stereochemistry and isotopes to gain great insight into a number of rearrangement reactions. A number of his papers have

opened large new areas of research developed by the organic chemistry community at large.

The awards earned by Professor Doering include the Pure Chemistry Award of the American Chemical Society, the Hofmann Medal of the German Chemical Society and the James Flack Norris Award in Physical Organic Chemistry. He has been president of the Council for a Liveable World.

Professor Doering will present lectures at 11 am in V1-07 on 24 and 31 October and at 1 pm in V1-28 on 21 October and 2 November.

Gairdner Award winner to visit campus Don C Wiley adds to understanding of the immune system

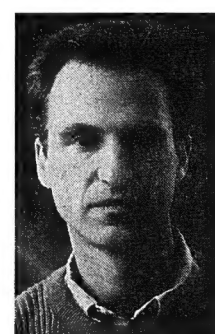
Noted structural biologist Don C Wiley, winner of a Gairdner Foundation International Award for 1994, will visit the University of Alberta on 17 October. Dr Wiley, who is Professor of Biochemistry and Biophysics at Harvard University, will present a lecture titled "Structural Studies: Antigen and Superantigen Binding to MHC Molecules and Membrane Fusion."

Dr Wiley will speak at 4 pm in 2-27 Medical Sciences Building.

Dr Wiley is a practitioner of the ultimate form of biological visualization, the use of X-ray crystallography to determine the complete structures of the complex molecules of life at atomic resolution. Large molecules whose properties could previously only be dimly described using indirect means have yielded to this powerful approach, providing pictures that explain in molecular detail how complex biological processes work.

Although Dr Wiley is widely known for a series of elegant studies of large molecules, the Gairdner Foundation selection committee was struck by his and Pamela Bjorkman's (California Institute of Technology in Pasadena) study of the so-called major histocompatibility complex, or MHC.

Without MHC molecules, the immune



Don C Wiley

system has no way of recognizing a foreign antigen and initiating a cellular response. Until the work of Drs Wiley and Bjorkman (co-recipient of the Gairdner Award), MHC molecules were essentially a black box, described by their genetic properties and by fragments

of chemical information. All discussion of the cellular immune response is now couched, explicitly or implicitly, in terms of their molecular model.

"The Wiley-Bjorkman model," says Vern Paetkau, Chair of the U of A's Department of Biochemistry, "immediately made existing genetic and chemical information about the MHC system understandable, and generated strong predictions about the nature of antigenicity, predictions that open the door to manipulation of the immune system for human benefit."

Drs Wiley and Bjorkman will receive the Gairdner Award, Canada's highest recognition for achievement in medical science, in Toronto later next week.

LAURELS



■ Eleanor Wein, Research Associate with the Canadian Circumpolar Institute, recently returned from the Canadian Dietetic Association's Annual Conference with an Award of Achievement. The article, "Nutrient Intakes of Native Mothers and School Children", of which Wein was principal author, drew praise as an example of scientific writing. It appeared in the *Journal of the Canadian Dietetic Association*.

■ Cara Beatty, of Calgary, is the 1994 recipient of the Moshier Memorial Gold Medal awarded to a graduating student for outstanding merit in all studies in the Faculty of Medicine.

Besides her academic pursuits, Beatty teaches piano, has her instructor's level certification in swimming and aquatic emergency



Cara Beatty

care, and raises and trains dogs. She has accepted a residency position in Family Medicine at the University of Calgary.

■ Francis Pelletier (Philosophy) gave the Presidential Address to the Society for Exact Philosophy (SEP) in Austin, Texas, reporting on cognitive science research performed jointly with Renée Elio (Computing Science). SEP is a Canadian-US organization that was founded in 1971 and that holds annual meetings alternating between the two countries. The 1974 and 1989 meetings were held at the U of A. Dr Pelletier was elected president in 1992.

■ Einer Boberg and Deborah Kully (Institute for Stuttering Treatment and Research) were invited to speak at the First World Congress on Fluency Disorders held in Munich in August. In their paper they described the Comprehensive Stuttering Program developed at the Institute. Dr Boberg was the Canadian representative on a panel of experts which discussed how to improve communication between therapists and self-help groups.

FOCUS ON Faculties

FACULTY FACTS:

Mandate: To develop and provide excellent teaching and coaching, research and service programs, which foster an understanding and appreciation of leisure and physical activity in a healthy lifestyle.

History: First Faculty of Physical Education and Recreation in Canada. Department of Physical Education created in 1945; School of Physical Education established in 1954 with the first degree credited in 1964. School became Faculty of Physical Education in 1976 and subsequently changed its name to Faculty of Physical Education and Recreation.

1993-94 operating budget: Overall expenditures of about \$9 million (more than half raised through fund development and self-generating activities along with \$4.2 million from the University)

Enrollment: 700 undergraduates, 110 graduate students

Courses: 260 course sections are taught annually

Degrees: BA, BPE, MA MSc, PhD

Teaching staff: 38 full time

Support staff: 150 full- and part-time

Prominent alumni: Margaret Southern, CEO, Spruce Meadows equestrian facility; Gerry Glassford, former Dean of the Faculty; Darwin Park, partner of the executive search company, Park Davies.

Leadership: Art Quinney, Dean; Tim Burton, Associate Dean

Physical Education and Recreation: A Faculty for all seasons, students and staff *Faculty focus on health promotion meets needs of the '90s*

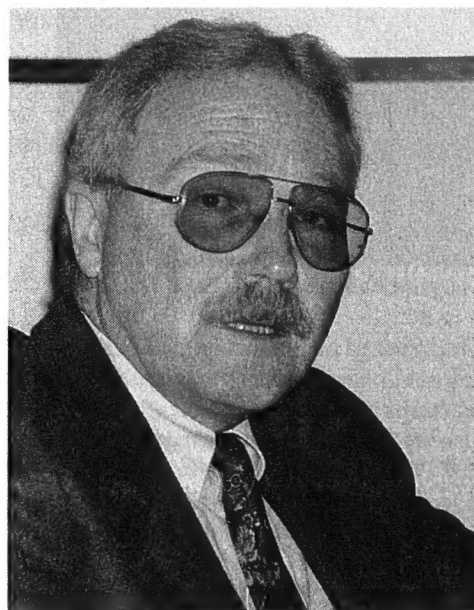
By Sandra Halme

Listening to Art Quinney, Dean of the Faculty of Physical Education and Recreation, talk about the teaching and research focus within the Faculty, one's eye is drawn to the autographed poster of Wayne Gretzky, a player who epitomizes the well being and active, healthy lifestyle which the Faculty promotes through its professoriate and hundreds of fitness activities. Gretzky is a recipient of the Faculty's focus and expertise, and in particular Dr Quinney, who conducts fitness appraisals on the Edmonton Oilers and the world champion Canada Cup hockey teams.

The Faculty of Physical Education and Recreation is unique in that it is every student's Faculty. It draws students from every corner of campus – either as members of varsity teams or as volunteers in its intramural or campus fitness and lifestyle programs.

Last year was the first year in recent memory that every Faculty wasn't represented on varsity teams. For the second consecutive year, the University had the distinction of having the most (70) Academic All-Canadians, varsity athletes who combine athletic prowess with academic excellence (achieving an average of 80 percent or better). Fourteen Faculties were represented.

It's not just students who benefit from the existence of the Faculty – hundreds of faculty and staff also take advantage of the course offerings and numerous facilities. For instance, since its inception in the late 1970s, the Campus Fitness and Lifestyle Program has seen well over 10,000 people



Dean Art Quinney

take advantage of its course offerings – this year alone the program offers close to 80 fitness classes.

This all-seasons Faculty is much more than a haven for fitness buffs and athletes though. "We've been working together with other health science Faculties on campus to create an institute dedicated to health promotion," Dean Quinney says. He points out that the proposed institute would give the campus a central focus for health promotion and well-being research and graduate education.

The commitment on behalf of the Faculty to encourage and educate the public on well-being extends beyond the gymnasium

and deep into its teaching and research activities. As Dean, Dr Quinney is the major advocate and leads by example. Along with colleague Len Wankel, he spearheaded the creation of the Alberta Centre for Well Being, and through his work with professional athletes in fitness training and appraisals he sets a high standard for the Faculty.

Listening to the needs of the community and facing the realities of the '90s has meant a revamping of the curriculum. Dr Quinney comments, "Our hope is that students graduate with enough skills, other than those found in the physical activity domain, to make them attractive to employers." To this end, the Faculty has joined with others on campus – examples are the joint degree with the Faculty of Education and the master's in sport and leisure management in the Faculty of Business – to provide students with the kind of flexible, relevant education for which the Faculty is noted.

As well, for a number of years the Faculty has worked in tandem with Red Deer College, Grande Prairie Regional College and Grant McEwan Community College to offer a unique transfer program. Working very closely with instructors (the Faculty sets the curriculum and college instructors teach it), students who successfully complete the first two years of the program are automatically admitted to the Faculty.

Physical Education and Recreation is also moving towards becoming nondepartmentalized (by 1 January 1995, if all goes according to Hoyle). Dr Quinney admits that it would be very comfortable to stay with the departmental system but he says the Faculty must respond to the changing environment and realities of looking toward the year 2000. "The move will bring down the administrative structure one notch and help us become more interactive with both students and faculty," Dr Quinney says it will also free up more resources which could then be directed to the crucial areas of teaching and coaching.

Racewalking his way to a PhD and international competition

When Tim Berrett was a high school student in his native England, he was deeply involved in track and field and cross-country competitions. His natural curiosity led him to try yet another related sport and now, a number of years later, he is one of Canada's leading racewalkers (speedwalkers to the uninitiated) and won a silver medal at last summer's Commonwealth Games.

His bent to "try something else" has taken him halfway across the globe armed with an undergraduate degree from Oxford

in politics and economics, and two master's degrees (one in economics and the other in public administration) from Queen's. The lure to the University in 1991 was the fact that the Faculty of Physical Education and Recreation was the only one in Canada to offer a program in Phys Ed and Sport Studies which he wanted to pursue (a couple of other universities now offer something similar).

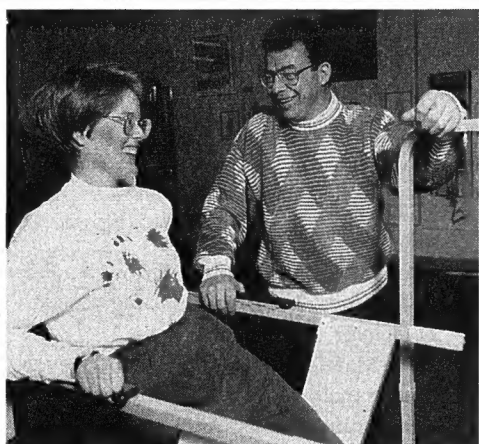
Berrett's thesis work is two-pronged – how sport organizations can more effectively approach corporations for sponsorship; and how corporations can get the most out of sponsorship. He points out that sponsorship isn't simply flying a corporation's flag or wearing their logos, it's much more intricate. For instance, Berrett cites the example of Purolator Courier who sponsored Jamaican-born track star Ben Johnson several years back. "They sponsored him not because they wanted him to wear their insignia or to do commercials," Berrett says, "but because a majority of their workers in a sorting plant in Toronto were Jamaican." Here is an example of where corporate sponsorship was used as an internal motivator and there are any number of reasons why a corporation may sponsor an athlete or team,

he says. Berrett hopes his work will result in a win-win situation for both amateur sport and corporations.

How can a doctoral student, who in the course of his research has already interviewed executives from some 70 corporations and sport organizations across the country, still find time to train three to four hours a day? It's a question which sometimes boggles Berrett's mind too as he reflects on the reports due to his supervisor, Trevor Slack, and the serious training he must do to prepare for the Argentina Pan Am Games in March. "My specialty is the 50 k race," says Berrett, "and it takes about four hours to complete so that's why I have to train for so long each day." He's also looking down the road to the '96 Olympics in Atlanta (the same time he hopes to have earned his PhD).

Combining athletics with academics appears to be a natural fit for Berrett. A former holder of a Canadian Rhodes Foundation Scholarship, he is a 1993 Killam Memorial Doctoral Scholar and also holds a SSHRC scholarship. In looking at the way Berrett lives life, it is somehow appropriate that he excels in a sport which requires discipline, rhythm and speed. He needs all three to accomplish what he has set out to do.

Tim Berrett



Bob Steadward confers with a visitor to the Rick Hansen Centre

In 1989, Dr Steadward was elected president of the International Paralympic Committee, the sole organization for disabled athletes around the world.

Hansen Centre abuzz

Twenty-five years ago as a student at the U of A, Bob Steadward began coaching a wheelchair basketball team.

"My first contact with disabled people made an unbelievable impact on my life," Dr Steadward says. "I saw how they had been disadvantaged. I wanted to make sure they had the same opportunities as those who don't have disabilities."

Since that time, Dr Steadward has devoted his career to increasing and improving those opportunities. In 1978 he founded the Research and Training Centre for the Physically Disabled (now the Rick Hansen Centre) at the University and is the director.

The Rick Hansen Centre (named in honour of Rick Hansen, the disabled athlete who gained international fame for his "Man in Motion" world tour and who is a former client of Dr Steadward) has expanded its programs to encompass several hundred physically disabled adults – athletes and nonathletes alike.

"There are so many rewards to this job," he says. "The feedback we get from clients is incredible. I've watched many young professionals grow in this environment and go on to work with disabled persons. And the Centre has had an impact around the world. I'm honoured to be a small part of this."

Armour cited for ability to communicate science

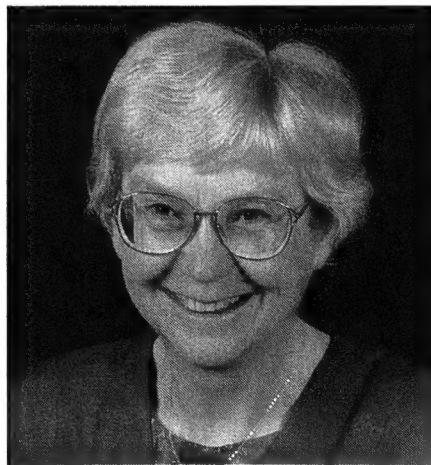
By Dinah Gray

Margaret-Ann Armour's suitcase often contains oranges, disposable foam cups, muffins, baking soda and vinegar. She's not preparing to avoid airline or restaurant food, she's ready for her next science demonstration.

Dr Armour, Assistant Chair, Department of Chemistry, is the 1994 recipient of the McNeil Medal for the Public Awareness of Science. The medal, awarded by the Royal Society of Canada with the corporate sponsorship of the McNeil Consumer Products Company, goes to an individual "who has demonstrated outstanding ability to promote and communicate science to students and the public within Canada."

A public medal presentation will take place 19 October at the Ontario Science Centre in Toronto. Dr Armour will give a demonstration for the public and she will only need to look as far as her suitcase for presentation materials.

Recognized for her work with young students, Dr Armour has demonstrated the effects of vinegar and baking soda and the



Margaret-Ann Armour

properties of limonene (extracted from orange rind) and a variety of other chemical reactions in many Edmonton schools. She is also well known for her activities with WISEST (Women in Scholarship, Engineering, Science and Technology), a University of Alberta group which promotes science to young women.

Twenty-seventh Annual Students' Research Day

Wednesday, 19 October, 2F1.04 Mackenzie Health Sciences Centre (Classroom D)

9:15 am	Opening Remarks Dean, Faculty of Medicine
9:30 am - 4:45 pm	Student Oral Presentations
12:15 pm - 1:30 pm	Student Poster Presentations and Lunch Lower Foyer, Bernard Snell Hall Mackenzie Health Sciences Centre
5:00 pm	Pizza Reception Lower Foyer, Bernard Snell Hall Mackenzie Health Sciences Centre
5:30 pm	Medical Alumni Association-sponsored Medical Students' Association Distinguished Speaker Dr Patricia A Baird, MD, CM, FRCPC, FCCMG University Professor University of British Columbia "Applying New Knowledge About Reproduction and Genetics in Canada" Bernard Snell Hall, Mackenzie Health Sciences Centre

Judges of Oral Presentations Paul W Armstrong, MD, FRCPC, FACC Professor and Chair Department of Medicine Laura S Frost, PhD Associate Professor Department of Biological Sciences J Hans van de Sande, PhD Associate Dean (Research) Faculty of Medicine University of Calgary Judges of Poster Presentations Anthony K Ho, PhD Associate Professor Department of Physiology Dennis Y Kunimoto, MD, FRCPC Assistant Professor Department of Medical Microbiology and Infectious Diseases Hanne L Ostergaard, PhD Assistant Professor Department of Immunology Reception and announcement of Students' Research Day Awards to follow in the Lower Foyer, Bernard Snell Hall
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TALKS

AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE

- 18 October, 12:30 pm
Allen Good, "Molecular Manipulation of Plants: Letting Plants Provide the Gene; Providing the Gene to the Plant." 1-30 Agriculture-Forestry Centre.
- 25 October, 12:30 pm
Gary W Matthison, "The Essentials of Science." 1-30 Agriculture-Forestry Centre.

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

- 25 October, 4 pm
Stephan Ruetz, postdoctoral fellow, Department of Biochemistry, McGill University, "Expression and Functional Characterization of the Three Mouse *mdr* Gene Products in *Saccharomyces Cerevisiae*." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.
- 27 October, 4 pm
David C Bloom, Department of Microbiology and Immunology, University of California at Los Angeles, "Genetics of Herpes Simplex Virus Neurovirulence and Reactivation." Cohosts: Biological Sciences and Biochemistry. Classroom D, Mackenzie Health Sciences Centre.
- 28 October, 11 am
Linda Boswell Bloom, Department of Microbiology and Immunology, University of Southern California, "Influence of Local DNA Sequence Context on the Kinetics of Nucleotide Excision by T4 DNA Polymerase." V-107 Physical Sciences Complex.

ANIMAL SCIENCE

- 21 October, 3 pm
Vickie Baracos, "Tissue Protein Metabolism: Substrate Partitioning in Lactating Animals." 1-13 Agriculture-Forestry Centre.

BIOETHICS

- 19 October, noon
Gordon N Cuff, Donna M Wilson, Patricia James and Ellen Toth, "Incompetent Adults: Who Should Decide?" 2J4.02 Mackenzie Health Sciences Centre.

BIOLOGICAL SCIENCES

- 14 October, 3:30 pm
Rich Moses, "Intrasexual Competition and Reproductive Success in Female Bush-Tailed Woodrats." M-149 Biological Sciences Centre.
- 21 October, 3:30 pm
John Koprowski, Department of Biology, Williamette University, "Conflict Between the Sexes: Social and Mating Systems in Tree Squirrels." M-149 Biological Sciences Centre.

CATHOLIC CAMPUS MINISTRY

- 18 October, 7:30 pm
Jeff Thompson, "Understanding Catholicism Today - Jesus Word Become Flesh." Newman Centre, St Joseph's College.

CANADIAN FEDERATION OF UNIVERSITY WOMEN EDMONTON

- 17 October, 7:30 pm
Speaker: Marilyn Flegler, chair, Alberta Advisory Council on Women's Issues. All women University graduates are welcome. Information: 435-1398. Faculty Club.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

- 18 October, 7:30 pm
Oleh Hawrylyshyn, George Washington University, Washington, D.C., "The Political Economy of Reform and Ukrainian Independence." Heritage Lounge, Athabasca Hall.

CHEMICAL ENGINEERING

- 20 October, 3:30 pm
Stanley I Sandler, University of Delaware, "The Application of Thermodynamics to Environmental Problems." 344 Chemical-Mineral Engineering Building.
- 21 October, 3:30 pm
Stanley I Sandler, "Modelling the Thermodynamic Behavior of Complex Mixtures." 344 Chemical-Mineral Engineering.

CHEMISTRY

- 17 October, 11 am
Shô Itô, Dean of Pharmaceutical Sciences, Tokushima Bunri University, Tokushima, Japan, "Syn(2.2)metacyclophanes." V-107 V-wing.

COMPUTING SCIENCE

- 17 October, 3:30 pm
Ian Akyildiz, professor, Electrical and Computer Engineering, Georgia Institute of Technology, "Information Superhighway in the United States." 2104 Dentistry-Pharmacy Centre.

ECOLOGY

- 21 October, noon
John Koprowski, Department of Biology, Williamette University, "Chiricahua Fox Squirrels, Geronimo and Me: Sky Island Refugia in the Desert." G-208 Biological Sciences Centre.
- 28 October, noon
Cam Goater, "Parasite Mediated Natural Selection." G-208 Biological Sciences Centre.

ECO-RESEARCH CHAIR IN ENVIRONMENTAL RISK MANAGEMENT

- 21 October, 2:30 pm
Barry Thomas, Environmental Health Directorate, Health Canada, Ottawa, "The Development Process for the Guidelines for Canadian Drinking Water Quality." Classroom D, 2F1.04 Mackenzie Health Sciences Centre.
- 25 October, 1:30 pm
Ronald Gots, National Medical Advisory Service, Bethesda, Maryland, "Public Versus Personal Risk: The Challenge in Environmental Risk Communication." Classroom D, 2F1.04 Mackenzie Health Sciences Centre.

ENGINEERING

- 20 October, 3 pm
1994 ICI Distinguished Visiting Lecturer. Stanley Sandler, the HB du Point Professor of Chemical Engineering and professor of Chemistry, University of Delaware, and director of the Center for Molecular and Engineering Thermodynamics, "The Application of Thermodynamics to Environmental Problems." 344 Chemical-Mineral Engineering Building.
- 21 October, 3 pm
Dr Sandler, "Modelling the Thermodynamic Behavior of Complex Mixtures." 344 Chemical-Mineral Engineering Building.

GEOGRAPHY

- 14 October, 3 pm
John Wilson, "Windflow Through a Forest on a Ridge." 3-36 Tory Building.
- 21 October, 3 pm
Leon Marciak, Conservation and Development Branch, Alberta Agriculture, "Use of Digital Terrain Models: Satellite Imagery in Municipal Planning." 3-36 Tory Building.

HISTORY

- 14 October, 3 pm
The Lewis H Thomas Distinguished Speaker. Donald Akenson, Department of

History, Queen's University, "The Making of the Greatest Living Irishman—Conor Cruise O'Brien." 1-05 Business Building.

LINGUISTICS

- 14 October, 3 pm
Anthony Hurren, Oxford University, "The Vowel Phonemes of Modern English." 4-70 Assiniboia Hall.

LIMNOLOGY AND FISHERIES DISCUSSION GROUP

- 20 October, 12:35 pm
Norm Stacey, "Freshwater Fish Use Released Hormones as Sex Pheromones: Some Implications for Basic and Applied Research." G-116 Biological Sciences Centre.
- 27 October, 12:35 pm
Patricia Chamber, research scientist, National Hydrology Research Institute, "Impacts of Industrial Activities on Water Quality in Rivers." G-116 Biological Sciences Centre.

MUSIC

- 21 October, noon
Marc Honneger, University of Strasbourg, "The Protestant 'Chorale': A French Creation in the 16th Century." 2-32 Fine Arts Building.

NURSING

- 24 October, 4 pm
Gail Mitchell, chief nursing officer, Sunnybrook Health Sciences Centre, and assistant professor, Faculty of Nursing, University of Toronto, "Nursing Diagnosis: An Obstacle to Caring Ways." Funded by Alberta Heritage Foundation for Medical Research. 2-115 Clinical Sciences Building.

PERINATAL RESEARCH CENTRE

- 18 October, noon
Anthony P Cheung, "Clinical Management of Female Reproductive Problems." 2J4.02 Mackenzie Health Sciences Centre.
- 25 October, 7:30 pm
Nestor N Demianczuk, chief, Department of Obstetrics and Gynaecology, Royal Alexandra Hospital, "Fetal Surgery: Explorations into a New Space." Bernard Snell Hall, Mackenzie Health Sciences Centre.

PETER JACYK CENTRE FOR UKRAINIAN HISTORICAL RESEARCH

- 19 October, 3:30 pm
Andre Kreutz, Political Science, University of Calgary, "Polish-Ukrainian Dilemmas: A Difficult Partnership." 352 Athabasca Hall.

Sun Life claim receipts

Sun Life has advised the University of Alberta that effective 1 November 1994, original receipts for ineligible or partially reimbursable Supplementary Health Care claims will no longer be returned to the claimant.

If you plan to file for medical expenses with Revenue Canada on your income tax return, photocopies of your receipts should be retained prior to submission of your claim to Sun Life. The Explanation of Benefits form returned from Sun Life can be used in conjunction with this process to indicate what was reimbursed or ineligible by the insurance carrier.

Revenue Canada will accept photocopies of all receipts.

Call the Pension and Benefits Office at 492-4555 if you have any questions regarding the above.

ABORIGINAL HEALTH DAY GOES 17 OCTOBER

Last week's *Folio* ("Currents," page 2) noted that the Faculty of Medicine's Fourth Annual Aboriginal Health Day would be held 11 October. In fact, the event will take place 17 October (11 am, Bernard Snell Hall, Mackenzie Health Sciences Centre).

PHARMACY AND PHARMACEUTICAL SCIENCES

24 October, 3:30 pm

David W Hughes, PhD, FCIC, Canadian Consultant, The United States Pharmacopeial Convention Inc, "The United States Pharmacopeia - Canadian Drug Standards - Canadian Drug Information." 4069 Dentistry-Pharmacy Centre.

PHYSICS

14 October, 2 pm

Laurie C Challis, Department of Physics, University of Nottingham, "Phonons and Physics in Less Than Three Dimensions." V-129 Vwing.

PHYSIOLOGY

21 October, 3:30 pm

David Olson, "Control of Human Birth: Demythologizing the Dragons." 207 Heritage Medical Research Centre.

POLITICAL SCIENCE AND GERMANIC LANGUAGES

20 October, 2 pm

Klaus Schmidt, first secretary, Embassy of the Federal Republic of Germany, "Germany After the Elections." 10-4 Tory Building.

RENEWABLE RESOURCES

20 October, 12:30 pm

Bill McGill, "QSAR: From Designing Chemicals to Attenuating Their Movement in the Environment." 8-21 General Services Building.

27 October, 12:30 pm

Vic Lieffers, "Understory White Spruce in Boreal Mixed Woods." 2-36 Earth Sciences Building.

RESEARCH SEMINARS IN EARLY WOMEN

18 October, noon

Monique Tschöfen, "François de Graffigny's Exotic Novels." Senate Chamber, Arts Building.

RURAL ECONOMY

17 October, 3:15 pm

David F Fullerton, "Prospects for Tradeables Development in Rural Sonora, Mexico." 519 General Services Building.

SCHOOL OF LIBRARY AND INFORMATION STUDIES

18 October, noon

Toni Samek, visiting assistant professor, "Exploring the Culture and Politics of Librar-

ianship: A Dissertation in the Making." 3-01 Rutherford South.

SLAVIC AND EAST EUROPEAN STUDIES

26 October, 3 pm

Peter Rolland, "Ad patrios Lares: Simiaon Polacki's Letters to his Belarusian Friends." 436 Arts Building.

SOCIETY OF EDMONTON DEMOGRAPHERS

26 October, noon

Karol J Krotki, "Alberta Problems Discussed in Cairo: Report From the International Conference on Population and Development." Heritage Room, Main Floor, City Hall.

SOCIOLOGY

19 October, noon

Ira Wasserman, Department of Sociology, Anthropology, and Criminology, Eastern Michigan University, "Women's Suffrage in Oregon, 1908-1912." 5-15 Tory Building.

UNIVERSITY TEACHING SERVICES

17 October, 3 pm

Lahoucine Ouzgane, "Responding to Student Writing." 281 CAB.

18 October, 3:30 pm

A Richard Morgan, "How Helpful are Handouts in Science Courses?" 281 CAB.

19 October, 3 pm

Peggy Anne Field, "Assessment of Students in the Clinical Setting." 281 CAB.

20 October, 3:30 pm

Maryanne Poirier, "Ecological Pedagogy." 281 CAB.


ZOOLOGY

18 October, 12:30 pm

Helen Mao, "Some Properties of the Ecdysteroid Receptor from the Salivary Gland of the Tick *Amblyomma Hebraeum*." G-114 Biological Sciences Centre.

25 October, 12:30 pm

Norman Neumann, "Mechanisms of Macrophage Activation in Teleosts: Are They Similar to Mammals?" G-114 Biological Sciences Centre.

 This symbol denotes environmentally-related seminars/events. If you wish to have an environmentally-related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

EVENTS

EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 15 November

"Beyond Words: An Exhibition of Manuscripts and Manuscript Facsimiles." Gallery hours: Monday to Friday, 8:30 am to 4:30 pm. B7 Rutherford South.

CLOTHING AND TEXTILES COLLECTION

Until 18 November

"Made in Canada—Women's Factory Clothing 1935-70." This museum exhibit of women's clothing examines the history and characteristics of the Canadian garment manufacturing sector with specific reference to the production of women's wear. The exhibit also discusses the nature of Canadian fashion and the possible effects of recent trade agreements upon the garment industry. Hours: Monday to Friday, 8:30 am to 5 pm. Information: Cathy Roy, 492-3826. Basement, Home Economics Building.

EXTENSION CENTRE GALLERY

Until 30 October

"An Exhibition of Works by Students in the Faculty of Extension's Summer Program." Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 8:30 to 11:30 am. Information: 492-3034. 2-54 University Extension Centre.

FAB GALLERY

Until 23 October

"Garry Madlung—The Seduction of Exclusion." This exhibition is the final visual presentation in partial fulfillment for the degree of Master of Fine Arts in Painting. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; statutory holidays, Saturday, Monday, closed. 1-1 Fine Arts Building.

McMULLEN GALLERY

Until 6 November

"Arpilleras: A Message of Universal Hope—Contemporary Chilean Folk Art." The Friends of University Hospitals are pleased to present an artistic commentary depicting the political and social life of Chile from 1973 to 1993. Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm; Monday, Tuesday, Thursday, 6 to 8 pm. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

FILM

DEPARTMENT OF GERMANIC LANGUAGES

25 October, 7:15 pm

Egmont—German with English subtitles. 141 Arts Building.

MUSIC

DEPARTMENT OF MUSIC

20 October, 7 pm

Kilburn Memorial Artist—Heinz Hollinger will give a master class on 20th century performance techniques. 1-29 Fine Arts Building.

21 October, 7:30 pm

"South Indian Music on the Veena," with Veena master Muthulakshmi Raganathan. Tickets are \$15 and can be purchased at the door. Auditorium, Provincial Museum.

21 October, 8 pm

Kilburn Memorial Concert featuring Heinz Holliger, oboe, with Ursula Holliger, harp. Program will include works by CPE Bach, Dorati, Carter, Britten, Viotti, Rossini and Chopin. Admission: \$1. Convocation Hall.



ACCOMMODATIONS FOR RENT

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University inquiries welcome, 492-7044.

EXECUTIVE two storey on ravine in Capitol Hill! Unique interior, completely renovated in keeping with the old style. 1 October possession or sooner. \$2,000/month, lease. Western Relocation, 434-4629.

ST ALBERT - 2,300', completely renovated, former Hillview showhome. Three bedrooms, double attached garage, built-in vac, window coverings, intercom, all appliances. \$1,500/month. 1-2 year lease. Western Relocation, 434-4629.

TERWILLEGAR HEIGHTS - Fully furnished, executive luxury. Three bedrooms upstairs, two bedrooms downstairs. All amenities. \$2,300/month firm. Western Relocation, 434-4629.

MODERN! MILLCREEK! Perfect! Upper floor furnished condo. Southwest exposure, one bedroom, den, jacuzzi tub. Eight month lease, nonsmokers, no pets. \$800/month. Western Relocation, 434-4629.

HOUSESIT - Greenfield, upgraded bungalow with finished basement. Fully furnished, \$200/month. 15 October - 15 April. Western Relocation, 434-4629.

BLUE QUILL - Southwest executive two storey, three bedroom. Double attached garage. \$1,200/month, 1 October. Western Relocation, 434-4629.

ROYAL GARDENS - Three bedroom bungalow. Finished basement, garage, \$875/month, immediate. Western Relocation, 434-4629.

COURTYARD of Riverbend, luxury townhomes. Fireplace, double attached garage, full basement, rents from \$995. Phone 430-6381.

NEAR UNIVERSITY - Completely furnished one bedroom, fantastic view, pool. Short/long term, suitable for visiting professor. 433-7165, 492-5301.

RENT IN WINDSOR PARK - Three bedroom view home. Walk to campus. \$1,200/month. 433-0212.

AFFORDABLE, spacious, four bedroom house only 10 minutes from campus. All appliances included! Pets and boyfriends welcome. If interested, please contact Tad at 482-7290.

WALK TO UNIVERSITY - Large, four bedrooms, two baths, washer, dryer, finished basement. \$975/month. 487-1862.

SPACIOUS, two bedroom condominium for lease. Huge swimming pool and luxury amenities. Available now. 9929 Saskatchewan Drive. \$1,400/month, condo fees included. 435-5028.

4916 116A Street - 1,300', 3 1/2 bedrooms, 1 1/2 baths, six appliances, finished basement, garage. Immaculate, quiet. No pets. References. \$800. 435-7098.

109 STREET 72 AVENUE - Two bedroom house, developed basement, garage, fenced yard. \$625. 483-8460.

SASKATCHEWAN DRIVE highrise condo - Two bedrooms, two full baths, river valley view. \$700 includes water, heat. Available immediately. 469-5845 evenings.

UNIVERSITY AREA - Three bedrooms, two bathrooms, four appliances, \$600/month. Phone 467-0413.

TWO MASTER BEDROOMS, executive condo. Saskatchewan Drive, downtown view. \$850/month. Ray, 498-2930.

INTERESTED in buying, selling or leasing a condominium? Call me first. Available from \$33,000 to \$474,500. Ask for Connie Kennedy, condo consultant/specialist, 25 years. Re/Max, 488-4000.

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 595-3200, Lois Dutton, Re/Max ports west, Victoria, B.C.

McKERNAN - Renovated, two bedroom bungalow. Hardwood floors, quiet cul-de-sac, walk to University, landscaped yard. Must be seen! \$127,900. 11116 75 Avenue. 437-6761.

BEAUTIFUL, executive loft condo at Hampton Village. A must to see - right next

to University. Reg MacDonald, Re/Max, 439-7000.

CENTRAL - Take the LRT to work. Three bedroom home (or one with two studies). Ideal for professional couple. Character, many recent upgrades. \$77,000. Linda Kempo, Sunshine, 465-2200.

BY OWNER - Belgravia, newer executive home, open plan, four bedrooms, four bathrooms. Minutes to University. Mature landscaping. 11627 75 Avenue. 438-9002.

NEW LISTING - Lynnwood, three bedroom bungalow. Fireplace, double garage. Two bedroom suite down. Nice fenced yard, garden. Close to school. \$122,500. Motivated. Florence Thompson, Spencer Realty, 435-0808.

WINDSOR PARK home, view, split-level, three bedrooms, large lot. \$235,000. 433-0212.

PARKALLEN - New listing. Asking \$118,000. Cozy, semi-bungalow. Three plus bedrooms, double garage, nice west yard. Excellent University location. Chris Tenove, Spencer, 435-0808.

SUPER QUIET location near Southgate. Three bedroom bungalow with one-year-old solarium and hot tub, fireplace. Must sell! \$144,500. Raymond Cheng, Re/Max, 498-2930.

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